

ABSTRACT

A linear movement guide for translatory relative movement, without lubricants, of objects to be moved along a guide axis (1) comprises a rail (2) on which at least one carrying surface (10), which extends parallel to the guide axis, is provided, and a carriage (8) which comprises at least one loop (9, 45) of roller bodies, wherein the loop (9, 45) of roller bodies is a closed loop for the circulation of roller bodies. The roller bodies, which are arranged in the loop (9, 45) of roller bodies of the carriage (8), during a relative movement between the carriage (8) and the rail (2), for the transfer of loads, run through a carrying area of the loop of roller bodies and in this process are positioned both against the carrying surface (10) of the rail (2) and against the carriage (8), at least essentially free of any organic lubricants. At least some of the roller bodies comprise two or more different materials with which in the roller bodies a core (17) as well as, for the purpose of creating a contact surface (19) between the respective roller body and the rail, a zone which surrounds the core (17) is formed. Moreover, the linear movement guide comprises several separating-elements (21, 31, 41) which in the loop (9, 45) of roller bodies are arranged between two roller bodies for preventing any contact between the two respective roller bodies.

(Fig. 1)